

# Converting Colors

$Y_{xy}(50.8695, 0.2156, 0.2852)$

Have a look what the booklet for  
Yxy(50.8695, 0.2156, 0.2852)  
contains.

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# Color

**Yxy(50.7470, 0.2157, 0.2855)**

# Conversions

## Conversions Part 1

Format	Color
Hex	27CEEE
RGB	39, 206, 238
RGB Percent	15%, 81%, 93%
CMY	0.8470, 0.1921, 0.0667
CMYK	0.84, 0.13, 0.00, 0.07
HSL	190°, 85%, 54%
HSV	190°, 84%, 93%
XYZ	38.3402, 50.7470, 88.6606
YIQ	159.7150, -109.8040, -25.4520

# Conversions

## Conversions Part 2

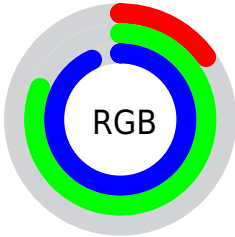
Format	Color
R <sub>Y</sub> B	39, 130, 238
Decimal	2608878
CIE Lab	76.53, -29.38, -27.23
CIE LCh	77, 40.060, 222.831
Yxy	50.7470, 0.2157, 0.2855
Android (android.graphics.Color)	4280798958 (0xFF27CEEE)
YUV	159.7150, 38.5945, -105.8671
Hunter-Lab	71.2369, -28.5947, -23.9258

# Details

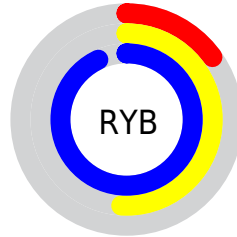
The Yxy color **50.7470, 0.2157, 0.2855** is a light color, and the websafe version is hex **00CCFF**. The color can be described as light washed cyan. A complement of this color would be **22.8318, 0.5824, 0.3510**, and the grayscale version is **34.8766, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.8049, 0.2450, 0.3288**, and **25.5106, 0.2094, 0.2738** is the 20% darker color. If you saturate the color by 10%, you get **48.6002, 0.2118, 0.2798**, and if you desaturate by 10%, it is **53.2331, 0.2215, 0.2913**.

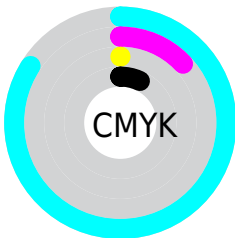
# Distribution



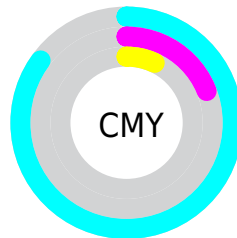
- Red (15%)
- Green (81%)
- Blue (93%)



- Red (15%)
- Yellow (51%)
- Blue (93%)



- Cyan (84%)
- Magenta (13%)
- Yellow (0%)
- Black (7%)



- Cyan (85%)
- Magenta (19%)
- Yellow (7%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 50.7470, 0.2157, 0.2855 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.


Similar to the brightness gradients but the following saturation gradients show a change of the Yxy color 50.7470, 0.2157, 0.2855 by changing the saturation by 10% instead.





 50.7470, 0.2157,  
0.2855


 50.7470, 0.2157,  
0.2855


389.5800, 0.2613,  
0.3082


 36.0073, 0.2053,  
0.2797


 91.2807, 0.2316,  
0.2939


 24.4398, 0.1924,  
0.2722


 117.8435, 0.2377,  
0.2970

 15.6602, 0.1763,  
0.2623


 149.1161, 0.2431,  
0.2996

 9.2840, 0.1557,  
0.2486

 185.4829, 0.2477,  
0.3018

 4.9269, 0.1287,  
0.2288

 227.3283, 0.2517,  
0.3038

 2.2044, 0.0931,  
0.1984

275.0367, 0.2553,

 0.7224, 0.0000,

0.3054

0.1554

328.9924, 0.2585,  
0.3069

■ 0.0000, 0.0000,  
0.0000

■ 50.7470, 0.2157,  
0.2855

■ 50.7470, 0.2157,  
0.2855

■ 48.6002, 0.2118,  
0.2798

■ 53.2331, 0.2215,  
0.2913

■ 47.3560, 0.2100,  
0.2761

■ 56.1006, 0.2292,  
0.2971

■ 59.3905, 0.2389,  
0.3028

■ 63.1365, 0.2502,  
0.3084

■ 67.3689, 0.2631,  
0.3137

72.1151, 0.2770,  
0.3187

77.4002, 0.2918,  
0.3233

83.2476, 0.3071,  
0.3276

89.6794, 0.3227,  
0.3314

# Harmonies

## Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



50.7470, 0.2342, 0.3357



50.7470, 0.2157, 0.2855



50.7470, 0.2202, 0.2535

# Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



50.7470, 0.2157, 0.2855



50.7470, 0.3475, 0.2777



50.7470, 0.3768, 0.4242

# Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



50.7470, 0.2157, 0.2855



22.8318, 0.5824, 0.3510

# Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



50.7470, 0.4124, 0.3975



50.7470, 0.2157, 0.2855



50.7470, 0.3963, 0.3150

# Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



50.7470, 0.2157, 0.2855



50.7470, 0.2921, 0.2521



50.7470, 0.4205, 0.3575



50.7470, 0.3257, 0.4237



# Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



50.7470, 0.2157, 0.2855



50.7470, 0.2356, 0.2442



50.7470, 0.4205, 0.3575



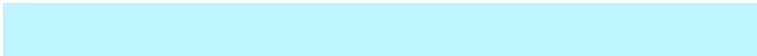
50.7470, 0.3911, 0.4177

# Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



50.7488, 0.2157, 0.2855



83.4820, 0.2749, 0.3179



62.0075, 0.2943, 0.5619



17.4415, 0.2699, 0.3162



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

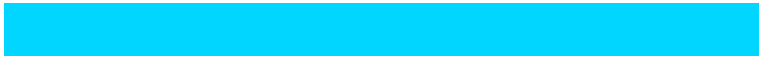


# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



50.7488, 0.2157, 0.2855



55.3117, 0.2100, 0.2759



17.4702, 0.1775, 0.1429



17.4708, 0.2981, 0.3251



26.5809, 0.2103, 0.2770



2.3259, 0.2124, 0.2846



# Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



24.0856, 0.3576, 0.1828



26.1149, 0.3673, 0.1797



46.4602, 0.4759, 0.4449



15.9852, 0.3163, 0.3094



12.4767, 0.3662, 0.1791

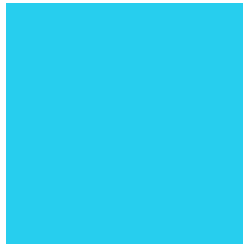


1.0495, 0.3593, 0.1753



# Previews

## White Background



This preview shows how the Yxy color 50.7470, 0.2157, 0.2855 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

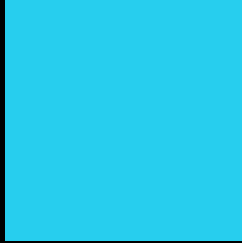
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 50.7470, 0.2157, 0.2855 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

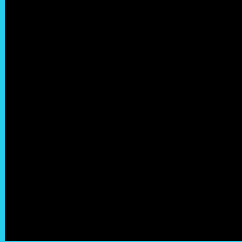
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 50.7470, 0.2157, 0.2855**

## **Background**



This preview shows how black text looks on a background with the Yxy color 50.7470, 0.2157, 0.2855.

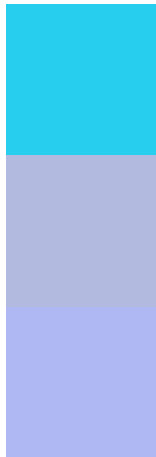


This preview shows how white text looks on a background with the Yxy color 50.7470, 0.2157, 0.2855.

# Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



### Original Color

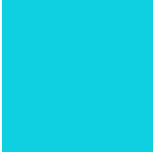
50.7470, 0.2157, 0.2855

### Protanopia

50.0833, 0.2798, 0.2825

### Deuteranopia

49.9822, 0.2655, 0.2590



## **Tritanopia**

50.6414, 0.2188, 0.3050

# Trichromacy



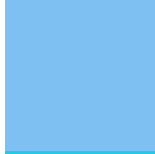
## Original Color

50.7470, 0.2157, 0.2855



## Protanomaly

48.3863, 0.2452, 0.2817



## Deuteranomaly

48.4858, 0.2379, 0.2662



## Tritanomaly

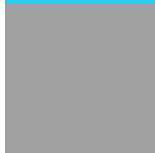
50.5210, 0.2172, 0.2969

# Monochromacy



## Original Color

50.7470, 0.2157, 0.2855



## Achromatopsia

35.1533, 0.3127, 0.3290



## Achromatomaly

38.7881, 0.2577, 0.3124

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 50.7470, 0.2157, 0.2855 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(39, 206, 238)` looks like.

```
.text, #text, p{  
    color:rgb(39, 206, 238)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(39, 206, 238) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(39, 206, 238) }
```

## Border

The CSS property to change the border of an element to Yxy 50.7470, 0.2157, 0.2855 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(39, 206, 238) }
```

If only the border color should be changed use the property `border-color`.

```
.border{ border-color:rgb(39, 206, 238) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel `rgb(39, 206, 238)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(39, 206, 238); -webkit-box-  
shadow:4px 4px 4px 4px rgb(39, 206, 238);  
box-shadow:4px 4px 4px 4px rgb(39, 206,  
238) }
```



# Background

The CSS property to change the background color of an element to Yxy 50.7470, 0.2157, 0.2855 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(39, 206, 238) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(39, 206,  
238) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

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